

# Mohamed Taki Eddine Abedesselam

University of Rome Tor Vergata, Italy

University of Camerino, Italy

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taki-abedesselam.github.io

## Education

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University of Rome Tor Vergata, University of Camerino, Italy, PhD Student in Blockchain and Distributed Ledger Technologies	Jan 2024 – present
University of Batna 2, Algeria, Master Degree in Cryptography and Security	Sep 2021 – Jul 2023
University Mohamed Khider Biskra, Algeria, Bachelor Degree in Computer Science	Sep 2017 – Jul 2021

## Languages

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- Arabic **Mother tongue**
- English **Intermediate**
- French **Intermediate**

## Programming Skills

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C, C++, Python, Solidity, Java, JavaScript, HTML & CSS

## Research Interests

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- P2P networks
- Random Graphs
- Randomized Algorithms
- Distributed systems
- Distributed Ledger Technologies
- Cryptocurrency

## Publications

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1. Abedesselam, T. E., Giacomelli, F., and Pasquale, F., “Disassortative dynamic BA models inspired by the Bitcoin Lightning Network,” in *2025 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops)*, pp. 19–24, Mar. 2025. doi: [10.1109/PerComWorkshops65533.2025.00035](https://doi.org/10.1109/PerComWorkshops65533.2025.00035)

## Preprints

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1. Abedesselam, M. T. E., Giacomelli, F., and Pasquale, F., and Salvi M., “Payment-failure times for random Lightning paths” . arXiv: [2511.16376\[cs.NI\]](https://arxiv.org/abs/2511.16376). URL: <https://arxiv.org/abs/2511.16376>

## Talks

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Payment-failure times for random Lightning paths.7th Conference on Blockchain Research & Applications for Innovative Networks and Services.

Zurich,CH  
Nov 2025

## Workshops

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National PhD Programme In Blockchain and Distributed Ledger Technology	Cagliari,IT Jul 2025
Computational Aspects of Complex Networks	Rome,IT Dec 2024
National PhD Programme In Blockchain and Distributed Ledger Technology	Palermo,IT Jun 2024

## Schools

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CyberDI 2025 - Advanced Techniques in Digital Identity	Tropea,IT Oct 2025
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